AMENDMENTS TO THE SPECIFICATION

Please replace the paragraph beginning on page 3, line 4 with the following paragraph:

The infrared imaging device illustrated in FIG. 10 images the target object during an effective scanning period, while it images the reference heat source A 1350 and the reference heat source B 1360 during an ineffective scanning period. Average value calculation means 1370 calculates the average value of the output of the infrared detector 1340 during the effective scanning period. Reference heat source A output calculation means 1380 calculates the average value of the output of the infrared detector 1340 while imaging the reference heat source A 1350 during the ineffective scanning period, whereas the reference heat source output calculation means 1390 calculates the average value of the output of the infrared detector 1340 while imaging the reference heat source B 1360 during the ineffective scanning period, and median value output means 1400 outputs the median value of these calculation results. A subtractor 1410 subtracts the output of the median value output means 1400 from the output of the average value calculation means 1370, and an adder 1420 adds a predetermined temperature difference ~~Ä~~Δ~~Δ~~T to the subtraction result and provides the obtained value to the reference heat source A controller 1440, whereas a subtractor 1430 subtracts the temperature difference ~~Ä~~Δ~~Δ~~T from the subtraction result and provides the obtained value to the reference heat source B controller 1450. The controllers 1440 and 1450 perform a feedback control so that the subtraction result of the subtractor

1410 is zero, i.e., the output of the average value calculation means 1370 and the output of the median value output means 1400 are equal to each other.

Please replace the paragraph beginning on page 4, line 7 with the following paragraph:

With such a control, even if the scene being imaged changes, the temperatures of the reference heat source A 1350 and the reference heat source B 1360 change according to the average value of the temperature of the obtained image, and are always controlled within a predetermined temperature range (average value±ÄΔt). Correction means 1460 obtains a correction coefficient used for correcting output variations, based on the output of the infrared detector 1340 while imaging the reference heat source A 1350 and the reference heat source B 1360 during the ineffective scanning period. In this way, a temperature calibration suitable for the temperature range to be measured is realized.